

High Temperature Superconductors, Inc. (HTS) develops and manufactures high temperature superconductive wire and complementary products. HTS is based in Santa Barbara, CA.

HTS is hiring a Materials Scientist with experience in high temperature superconducting materials growth and characterization. The ideal candidate will have experience with REBCO superconductors and will be intimately familiar with deposition, measurements, and structure-function relationships. You will work with process engineers and metrology/test engineers to optimize deposition processes, set up test protocols and direct the development of the superconducting layer. You will be responsible for taking the process to production including developing work instructions and SPC methods. Familiarity with use and function of vacuum tools is preferred. Prior experience with pulsed laser deposition is a plus. Senior Scientist preferred, but we are also open to an entry-level position or a recent graduate if PhD is completed in a relevant field.

Work hours and benefits:

- Work hours – Full-time
- Benefits – Medical, Dental, Vision, Life, Legal and 401K
- 3 weeks' vacation time (PTO), 11 paid holidays, 2 personal days
- Stock options granted to all employees

Material Scientist/HTS Expert:

- Develop best-in class superconducting REBCO tapes
- Develop and optimize REBCO deposition processes.
- Improve layer architecture
- Develop and establish REBCO test protocols
- Take all processes to production
- Develop metrology methods for process control
- Define and establish SPC protocols
- Develop and document standard operating procedures and work instructions
- Train technicians and operators
- Communicate workplace safety precautions to employees and ensure safe work practices

Requirements

- Proven hands-on experience with growing, processing and/or characterizing REBCO superconductors.
- Excellent verbal and written communication skills
- Excellent organizational skills
- Excellent analytical/critical thinking
- Ability to work with limited direction in a fast-paced dynamic start up environment
- Knowledge of statistical process control (SPC, Six Sigma, DOE) is desired
- Experience with continuous processing is a plus

Education and Experience Requirements:

- Minimum 5 years in related positions
- *Please send work history and compensation requirements to:*

Zoe Keller: zoe.k@hitsuperconductors.com